AUTODOC CLUB

# How to change front brake pads on **BMW 1 Hatchback (E87)** – replacement guide

## SIMILAR VIDEO TUTORIAL




This video shows the replacement procedure of a similar car part on another vehicle

**Important!**

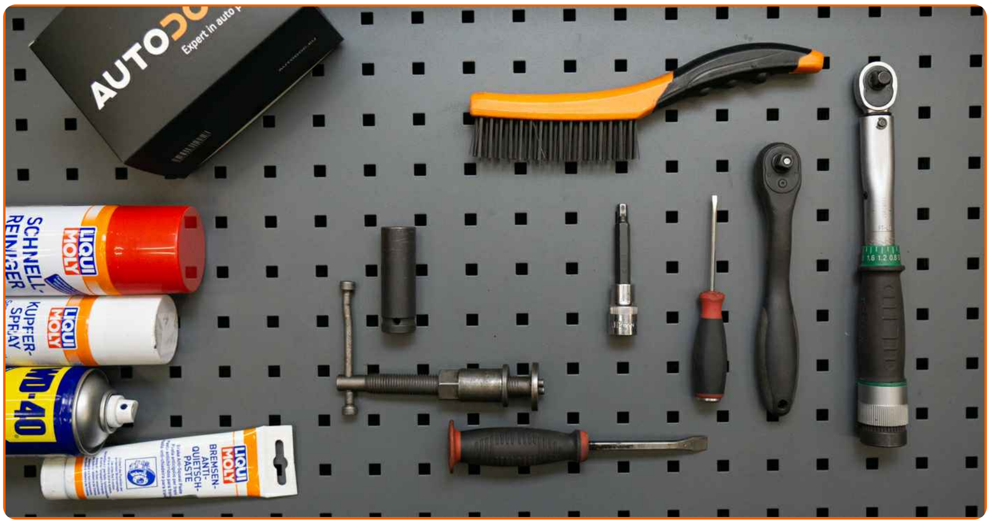
This replacement procedure can be used for:
BMW 1 Hatchback (E87) 116i 1.6, BMW 1 Hatchback (E87) 118i 2.0, BMW 1 Hatchback (E87) 120i 2.0, BMW 1 Hatchback (E87) 118d 2.0, BMW 1 Hatchback (E87) 120d 2.0

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The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Saloon (E90) 318i 2.0

# REPLACEMENT: BRAKE PADS – BMW 1 HATCHBACK (E87). LIST OF THE TOOLS YOU'LL NEED:




- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- HEX bit no.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

Buy tools

**Replacement: brake pads – BMW 1 Hatchback (E87). Tip from AUTODOC experts:**

- Perform the replacement of brake pads in complete set for each axis. This provides effective braking.
- The replacement procedure is identical for all brake pads on the same axle.
- Please note: all work on the car – BMW 1 Hatchback (E87) – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1. Open the bonnet. Unscrew the brake fluid reservoir cap.

2. Secure the wheels with chocks.

3. Loosen the wheel mounting bolts. Use wheel impact socket #17.



4. Raise the front of the car and secure on supports.

5. Unscrew the wheel bolts.



## AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. BMW 1 Hatchback (E87)

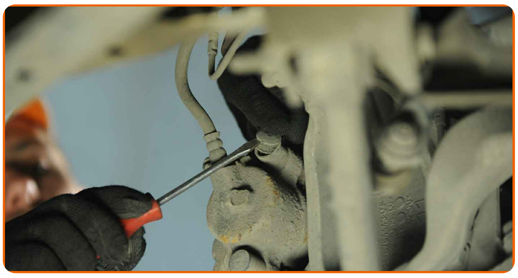
**6** Remove the wheel.



**7** Detach the brake caliper retaining spring. Use a flat screwdriver.



**8** Remove the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.



**9** Spread the brake pads. Use a crowbar.



**10** Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

**11** Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



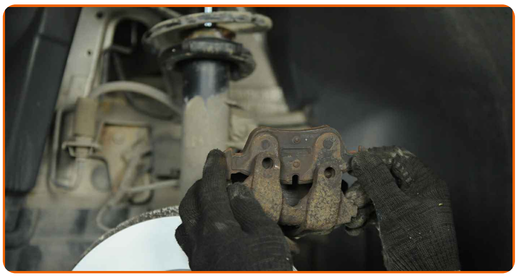
**12** Remove the brake caliper.



## Replacement: brake pads – BMW 1 Hatchback (E87). AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

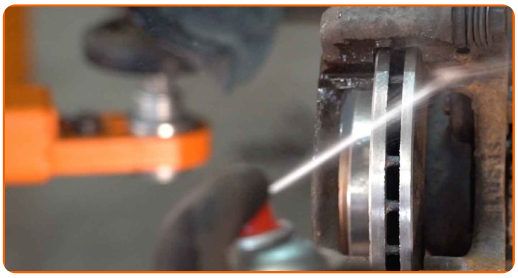
**13** Remove the brake pads.



### Replacement: brake pads – BMW 1 Hatchback (E87). Tip:

- Measure the brake disc thickness. Upon reaching the wear limit the part must be replaced.

**14** Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



### AUTODOC recommends:

- Replacement: brake pads – BMW 1 Hatchback (E87). After applying the spray, wait a few minutes.

**15** Treat the brake caliper piston. Use a brake cleaner.



AUTODOC recommends:

- After applying the spray, wait a few minutes.

**16** Press in the brake caliper piston. Use brake caliper wind back tool.



**17** Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.



Replacement: brake pads – BMW 1 Hatchback (E87). Tip:

- Make sure the disc surface is clean before installing the pads.

**18** Install new brake pads.



Replacement: brake pads – BMW 1 Hatchback (E87). AUTODOC recommends:

- Make sure the pads are installed with linings facing the disc.

**19** Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



**20** Install the dust boot caps of the brake caliper guide pins.



**21** Install the brake caliper retaining spring. Use a flat screwdriver.



**22** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



**23** Clean the brake disk surface. Use a brake cleaner.



### AUTODOC recommends:

- Replacement: brake pads – BMW 1 Hatchback (E87). After applying the spray, wait a few minutes.

**24** Install the wheel.



### AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 1 Hatchback (E87)

**25** Screw in the wheel bolts. Use wheel impact socket #17.



**26** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



## Replacement: brake pads – BMW 1 Hatchback (E87). AUTODOC recommends:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

**27** Remove the jacks and chocks.



## Replacement: brake pads – BMW 1 Hatchback (E87). Tip from AUTODOC:

- Check the brake fluid level in the expansion tank and refill if necessary.

**28** Tighten the brake fluid reservoir cap. Close the hood.

AUTODOC recommends:

- Slow down smoothly for first 150-200 km after the brake pads replacement. Avoid unneccessary and sharp braking to a stop.

## WELL DONE!

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